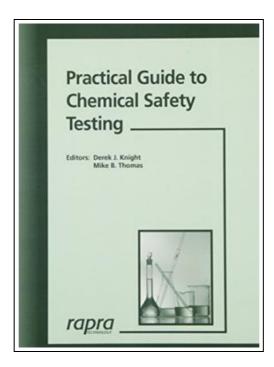
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Smithers Rapra Technology. Paperback. Book Condition: New. Paperback. 480 pages. Dimensions: 9.7in. x 7.4in. x 1.0in.There are many different chemicals and materials in use today. These are subject to stringent regulations, which include a requirement for physico-chemical and toxicity testing. In some countries existing chemicals are also undergoing safety checks. The aim is to determine their hazardous properties and the risks involved in using substances. Health and safety of the environment and the individual are becoming of prime importance to society and extensive legislation has been developed. To the R and D chemist this is a maze to negotiate when trying to introduce a new material or chemical into a different market place. What tests are required and for which markets What do the test results mean Who are the key organisations in each global region Legislation varies between applications and often the quantity of chemical in use is critical to determining the level of testing required. A Practical Guide to Chemical Safety Testing describes the different tests that must be performed on new chemicals and other materials to demonstrate to the regulatory authorities that they are safe for use. Tests vary from physico-chemical, measuring properties such as melting point and density, through genetic toxicity studies, to mammalian toxicology and studies to investigate effects on the environment. Animal testing is carried out to look for potential irritants, harmful substances, corrosive agents, allergens, cancer causing potential, etc. Each test type is described here and the validity of the test methods is debated. For example, there are sometimes major differences between simple model systems using cell lines or bacteria, effects in laboratory animals and, most importantly, with effects on humans. This can give rise to misleading interpretation of results. There is a chapter devoted to alternatives to animal testing for safety evaluation...

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